

Fig. 1

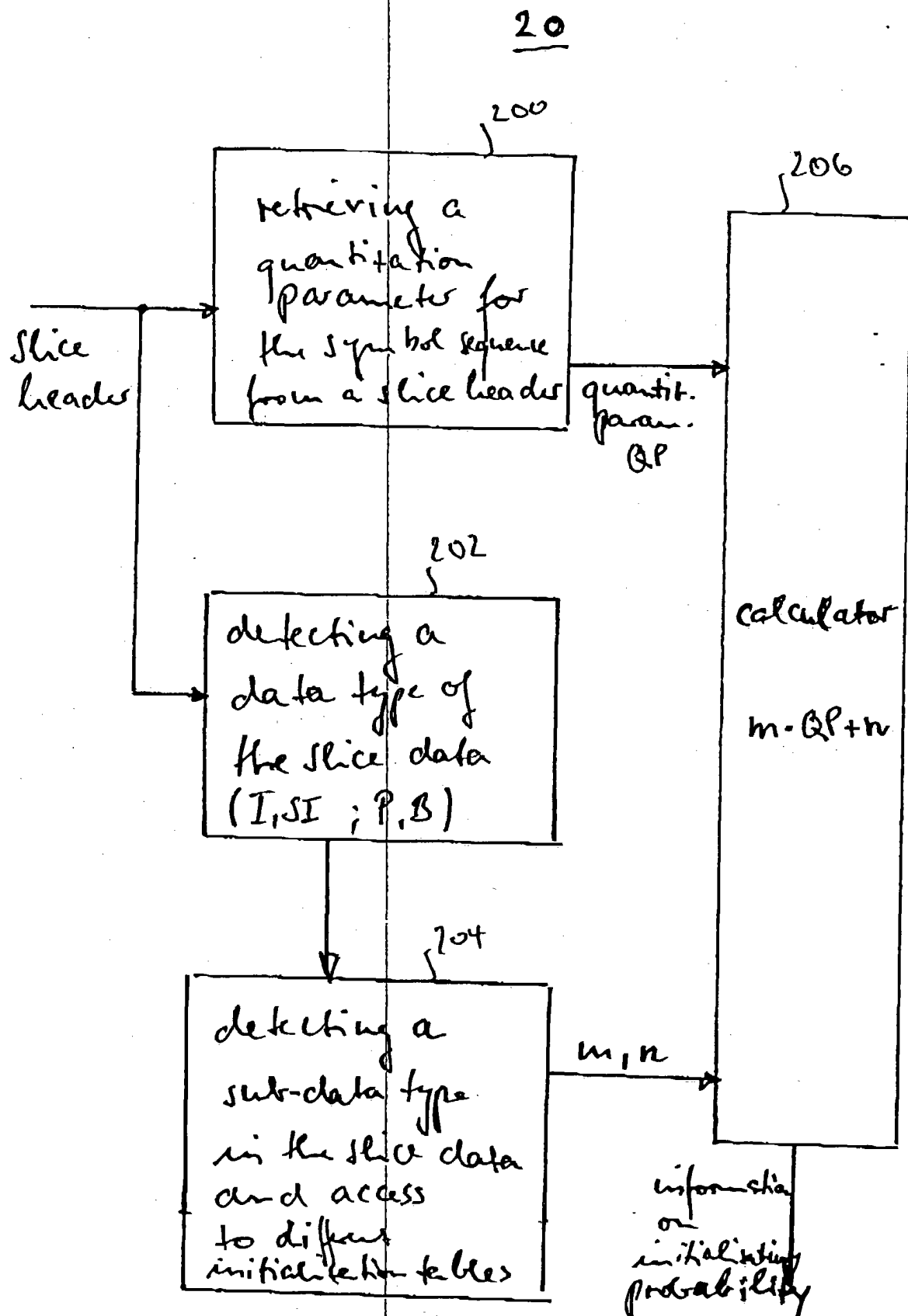


Fig. 2

[probability of least prob. symbol (LPS) and value of most probable symbol (MPS)]

```
preCtxState = max( 1, min( 126, ( ( m * SliceQP ) >> 4 ) + n ) )  
if( preCtxState <= 63 ) {  
    pStateIdx = 63 - preCtxState  
    valMPS    = 0  
} else {  
    pStateIdx = preCtxState - 64  
    valMPS    = 1  
}
```

preCtxState : auxiliary variable

m, n : 1st, 2nd table indices (initialization variables)

min : minimum function

SliceQP: slice quantitation parameter

pStateIdx : reference to initialization
probability information table
including probability information
for the least probable symbol (LPS)

valMPS : value of most probable symbol

valLPS : value of least probable symbol

Fig. 3

Initialisation variables	ctxIdx										
	0	1	2	3	4	5	6	7	8	9	10
m	20	2	3	20	2	3	-28	-23	-6	-1	7
n	-15	54	74	-15	54	74	127	104	53	54	51

Table 1 – Values of variables m and n for ctxIdx from 0 to 10

Fig. 4a

Value of cabac_init_idx	Initialisation variables	ctxIdx												
		11	12	13	14	15	16	17	18	19	20	21	22	23
0	m	23	23	21	1	0	-37	5	-13	-11	1	12	-4	17
	n	33	2	0	9	49	118	57	78	65	62	49	73	50
1	m	22	34	16	-2	4	-29	2	-6	-13	5	9	-3	10
	n	25	0	0	9	41	118	65	71	79	52	50	70	54
2	m	29	25	14	-10	-3	-27	26	-4	-24	5	6	-17	14
	n	16	0	0	51	62	99	16	85	102	57	57	73	57

Table 2 – Values of variables m and n for ctxIdx from 11 to 23

Fig. 4b

Value of cabac_init_idx	Initialisation variables	ctxIdx																
		24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	
0	m	18	9	29	26	16	9	-46	-20	1	-13	-11	1	-6	-17	-6	9	
	n	64	43	0	67	90	104	127	104	67	78	65	62	86	95	61	45	
1	m	26	19	40	57	41	26	-45	-15	-4	-6	-13	5	6	-13	0	8	
	n	34	22	0	2	36	69	127	101	76	71	79	52	69	90	52	43	
2	m	20	20	29	54	37	12	-32	-22	-2	-4	-24	5	-6	-14	-6	4	
	n	40	10	0	0	42	97	127	117	74	85	102	57	93	88	44	55	

Table 3 – Values of variables m and n for ctxIdx from 24 to 39

Fig. 4c

Value of cabac_init_idc	Initialisation variables	ctxIdx															
		40	41	42	43	44	45	46	47	48	49	50	51	52	53		
0	m	-3	-6	-11	6	7	-5	2	0	-3	-10	5	4	-3	0		
	n	69	81	96	55	67	86	88	58	76	94	54	69	81	88		
1	m	-2	-5	-10	2	2	-3	-3	1	-3	-6	0	-3	-7	-5		
	n	69	82	96	59	75	87	100	56	74	85	59	81	86	95		
2	m	-11	-15	-21	19	20	4	6	1	-5	-13	5	6	-3	-1		
	n	89	103	116	57	58	84	96	63	85	106	63	75	90	101		

Table 4 – Values of variables m and n for ctxIdx from 40 to 53

Fig. 4d

Value of cabac_init_idc	Initialisation variables	ctxIdx					
		54	55	56	57	58	59
0	m	-7	-5	-4	-5	-7	1
	n	67	74	74	80	72	58
1	m	-1	-1	1	-2	-5	0
	n	66	77	70	86	72	61
2	m	3	-4	-2	-12	-7	1
	n	55	79	75	97	50	60

Table 5 – Values of variables m and n for ctxIdx from 54 to 59

Fig. 4e

Initialisation variables	ctxIdx									
	60	61	62	63	64	65	66	67	68	69
m	0	0	0	0	-9	4	0	-7	13	3
n	41	63	63	63	83	86	97	72	41	62

Table 6 – Values of variables m and n for ctxIdx from 60 to 69

Fig. 4f

ctxIdx	I and SI slices		Value of cabac_init_idc						ctxIdx	I and SI slices		Value of cabac_init_idc					
			0		1		2					0		1		2	
	m	n	m	n	m	n	m	n		m	n	m	n	m	n	m	n
70	0	11	0	45	13	15	7	34	88	-11	115	-13	108	-4	92	5	78
71	1	55	-4	78	7	51	-9	88	89	-12	63	-3	46	0	39	-6	55
72	0	69	-3	96	2	80	-20	127	90	-2	68	-1	65	0	65	4	61
73	-17	127	-27	126	-39	127	-36	127	91	-15	84	-1	57	-15	84	-14	83
74	-13	102	-28	98	-18	91	-17	91	92	-13	104	-9	93	-35	127	-37	127
75	0	82	-25	101	-17	96	-14	95	93	-3	70	-3	74	-2	73	-5	79
76	-7	74	-23	67	-26	81	-25	84	94	-8	93	-9	92	-12	104	-11	104
77	-21	107	-28	82	-35	98	-25	86	95	-10	90	-8	87	-9	91	-11	91
78	-27	127	-20	94	-24	102	-12	89	96	-30	127	-23	126	-31	127	-30	127
79	-31	127	-16	83	-23	97	-17	91	97	-1	74	5	54	3	55	0	65
80	-24	127	-22	110	-27	119	-31	127	98	-6	97	6	60	7	56	-2	79
81	-18	95	-21	91	-24	99	-14	76	99	-7	91	6	59	7	55	0	72
82	-27	127	-18	102	-21	110	-18	103	100	-20	127	6	69	8	61	-4	92
83	-21	114	-13	93	-18	102	-13	90	101	-4	56	-1	48	-3	53	-6	56
84	-30	127	-29	127	-36	127	-37	127	102	-5	82	0	68	0	68	3	68
85	-17	123	-7	92	0	80	11	80	103	-7	76	-4	69	-7	74	-8	71
86	-12	115	-5	89	-5	89	5	76	104	-22	125	-8	88	-9	88	-13	98
87	-16	122	-7	96	-7	94	2	84									

Table 7 – Values of variables m and n for ctxIdx from 70 to 104

Fig. 4g

ctxIdx	l and Sl slices		Value of cabac_init_idc								ctxIdx	l and Sl slices		Value of cabac_init_idc							
			0		1		2							0		1		2			
	m	n	m	n	m	n	m	n	m	n		m	n	m	n	m	n	m	n		
105	-7	93	-2	85	-13	103	-4	86	136	-13	101	5	53	0	58	-5	75				
106	-11	87	-6	78	-13	91	-12	88	137	-13	91	-2	61	-1	60	-8	80				
107	-3	77	-1	75	-9	89	-5	82	138	-12	94	0	56	-3	61	-21	83				
108	-5	71	-7	77	-14	92	-3	72	139	-10	88	0	56	-8	67	-21	64				
109	-4	63	2	54	-8	76	-4	67	140	-16	84	-13	63	-25	84	-13	31				
110	-4	68	5	50	-12	87	-8	72	141	-10	86	-5	60	-14	74	-25	64				
111	-12	84	-3	68	-23	110	-16	89	142	-7	83	-1	62	-5	65	-29	94				
112	-7	62	1	50	-24	105	-9	69	143	-13	87	4	57	5	52	9	75				
113	-7	65	6	42	-10	78	-1	59	144	-19	94	-6	69	2	57	17	63				
114	8	61	-4	81	-20	112	5	66	145	1	70	4	57	0	61	-8	74				
115	5	56	1	63	-17	99	4	57	146	0	72	14	39	-9	69	-5	35				
116	-2	66	-4	70	-78	127	-4	71	147	-5	74	4	51	-11	70	-2	27				
117	1	64	0	67	-70	127	-2	71	148	18	59	13	68	18	55	13	91				
118	0	61	2	57	-50	127	2	58	149	-8	102	3	64	-4	71	3	65				
119	-2	78	-2	76	-46	127	-1	74	150	-15	100	1	61	0	58	-7	69				
120	1	50	11	35	-4	66	-4	44	151	0	95	9	63	7	61	8	77				
121	7	52	4	64	-5	78	-1	69	152	-4	75	7	50	9	41	-10	66				
122	10	35	1	61	-4	71	0	62	153	2	72	16	39	18	25	3	62				
123	0	44	11	35	-8	72	-7	51	154	-11	75	5	44	9	32	-3	68				
124	11	38	18	25	2	59	-4	47	155	-3	71	4	52	5	43	-20	81				
125	1	45	12	24	-1	55	-6	42	156	15	46	11	48	9	47	0	30				
126	0	46	13	29	-7	70	-3	41	157	-13	69	-5	60	0	44	1	7				
127	5	44	13	36	-6	75	-6	53	158	0	62	-1	59	0	51	-3	23				
128	31	17	-10	93	-8	89	8	76	159	0	65	0	59	2	46	-21	74				
129	1	51	-7	73	-34	119	-9	78	160	21	37	22	33	19	38	16	66				
130	7	50	-2	73	-3	75	-11	83	161	-15	72	5	44	-4	66	-23	124				
131	28	19	13	46	32	20	9	52	162	9	57	14	43	15	38	17	37				
132	16	33	9	49	30	22	0	67	163	16	54	-1	78	12	42	44	-18				
133	14	62	-7	100	-44	127	-5	90	164	0	62	0	60	9	34	50	-34				
134	-13	108	9	53	0	54	1	67	165	12	72	9	69	0	89	-22	127				
135	-15	100	2	53	-5	61	-15	72													

Table 8 – Values of variables m and n for ctxIdx from 105 to 165

Fig. 4h

ctxldx	I and SI slices		Value of cabac_init_idc								ctxldx	I and SI slices		Value of cabac_init_idc							
			0		1		2		0					1		2					
	m	n	m	n	m	n	m	n	m	n		m	n	m	n	m	n				
166	24	0	11	28	4	45	4	39	197	26	-17	28	3	36	-28	28	-3				
167	15	9	2	40	10	28	0	42	198	30	-25	28	4	38	-28	24	10				
168	8	25	3	44	10	31	7	34	199	28	-20	32	0	38	-27	27	0				
169	13	18	0	49	33	-11	11	29	200	33	-23	34	-1	34	-18	34	-14				
170	15	9	0	46	52	-43	8	31	201	37	-27	30	6	35	-16	52	-44				
171	13	19	2	44	18	15	6	37	202	33	-23	30	6	34	-14	39	-24				
172	10	37	2	51	28	0	7	42	203	40	-28	32	9	32	-8	19	17				
173	12	18	0	47	35	-22	3	40	204	38	-17	31	19	37	-6	31	25				
174	6	29	4	39	38	-25	8	33	205	33	-11	26	27	35	0	36	29				
175	20	33	2	62	34	0	13	43	206	40	-15	26	30	30	10	24	33				
176	15	30	6	46	39	-18	13	36	207	41	-6	37	20	28	18	34	15				
177	4	45	0	54	32	-12	4	47	208	38	1	28	34	26	25	30	20				
178	1	58	3	54	102	-94	3	55	209	41	17	17	70	29	41	22	73				
179	0	62	2	58	0	0	2	58	210	30	-6	1	67	0	75	20	34				
180	7	61	4	63	56	-15	6	60	211	27	3	5	59	2	72	19	31				
181	12	38	6	51	33	-4	8	44	212	26	22	9	67	8	77	27	44				
182	11	45	6	57	29	10	11	44	213	37	-16	16	30	14	35	19	16				
183	15	39	7	53	37	-5	14	42	214	35	-4	18	32	18	31	15	36				
184	11	42	6	52	51	-29	7	48	215	38	-8	18	35	17	35	15	36				
185	13	44	6	55	39	-9	4	56	216	38	-3	22	29	21	30	21	28				
186	16	45	11	45	52	-34	4	52	217	37	3	24	31	17	45	25	21				
187	12	41	14	36	69	-58	13	37	218	38	5	23	38	20	42	30	20				
188	10	49	8	53	67	-63	9	49	219	42	0	18	43	18	45	31	12				
189	30	34	-1	82	44	-5	19	58	220	35	16	20	41	27	26	27	16				
190	18	42	7	55	32	7	10	48	221	39	22	11	63	16	54	24	42				
191	10	55	-3	78	55	-29	12	45	222	14	48	9	59	7	66	0	93				
192	17	51	15	46	32	1	0	69	223	27	37	9	64	16	56	14	56				
193	17	46	22	31	0	0	20	33	224	21	60	-1	94	11	73	15	57				
194	0	89	-1	84	27	36	8	63	225	12	68	-2	89	10	67	26	38				
195	26	-19	25	7	33	-25	35	-18	226	2	97	-9	108	-10	116	-24	127				
196	22	-17	30	-7	34	-30	33	-25													

Table 9 - Values of variables m and n for ctxldx from 166 to 226

Fig. 4i

ctxIdx	I and SI slices		Value of cabac_init_idc						ctxIdx	I and SI slices		Value of cabac_init_idc					
			0		1		2					0		1		2	
	m	n	m	n	m	n	m	n		m	n	m	n	m	n	m	n
227	-3	71	-6	76	-23	112	-24	115	252	-12	73	-6	55	-16	72	-14	75
228	-6	42	-2	44	-15	71	-22	82	253	-8	76	0	58	-7	69	-10	79
229	-5	50	0	45	-7	61	-9	62	254	-7	80	0	64	-4	69	-9	83
230	-3	54	0	52	0	53	0	53	255	-9	88	-3	74	-5	74	-12	92
231	-2	62	-3	64	-5	66	0	59	256	-17	110	-10	90	-9	86	-18	108
232	0	58	-2	59	-11	77	-14	85	257	-11	97	0	70	2	66	-4	79
233	1	63	-4	70	-9	80	-13	89	258	-20	84	-4	29	-9	34	-22	69
234	-2	72	-4	75	-9	84	-13	94	259	-11	79	5	31	1	32	-16	75
235	-1	74	-8	82	-10	87	-11	92	260	-6	73	7	42	11	31	-2	58
236	-9	91	-17	102	-34	127	-29	127	261	-4	74	1	59	5	52	1	58
237	-5	67	-9	77	-21	101	-21	100	262	-13	86	-2	58	-2	55	-13	78
238	-5	27	3	24	-3	39	-14	57	263	-13	96	-3	72	-2	67	-9	83
239	-3	39	0	42	-5	53	-12	67	264	-11	97	-3	81	0	73	-4	81
240	-2	44	0	48	-7	61	-11	71	265	-19	117	-11	97	-8	89	-13	99
241	0	46	0	55	-11	75	-10	77	266	-8	78	0	58	3	52	-13	81
242	-16	64	-6	59	-15	77	-21	85	267	-5	33	8	5	7	4	-6	38
243	-8	68	-7	71	-17	91	-16	88	268	-4	48	10	14	10	8	-13	62
244	-10	78	-12	83	-25	107	-23	104	269	-2	53	14	18	17	8	-6	58
245	-6	77	-11	87	-25	111	-15	98	270	-3	62	13	27	16	19	-2	59
246	-10	86	-30	119	-28	122	-37	127	271	-13	71	2	40	3	37	-16	73
247	-12	92	1	58	-11	76	-10	82	272	-10	79	0	58	-1	61	-10	76
248	-15	55	-3	29	-10	44	-8	48	273	-12	86	-3	70	-5	73	-13	86
249	-10	60	-1	36	-10	52	-8	61	274	-13	90	-6	79	-1	70	-9	83
250	-6	62	1	38	-10	57	-8	66	275	-14	97	-8	85	-4	78	-10	87
251	-4	65	2	43	-9	58	-7	70									

Table 10 – Values of variables m and n for ctxIdx from 227 to 275

Fig. 4j

ctxIdx	I and SI slices		Value of cabac_init_idc						ctxIdx	I and SI slices		Value of cabac_init_idc					
			0		1		2					0		1		2	
	m	n	m	n	m	n	m	n		m	n	m	n	m	n	m	n
277	-6	93	-13	106	-21	126	-22	127	308	-16	96	-1	51	-16	77	-10	67
278	-6	84	-16	106	-23	124	-25	127	309	-7	88	7	49	-2	64	1	68
279	-8	79	-10	87	-20	110	-25	120	310	-8	85	8	52	2	61	0	77
280	0	66	-21	114	-26	126	-27	127	311	-7	85	9	41	-6	67	2	64
281	-1	71	-18	110	-25	124	-19	114	312	-9	85	6	47	-3	64	0	68
282	0	62	-14	98	-17	105	-23	117	313	-13	88	2	55	2	57	-5	78
283	-2	60	-22	110	-27	121	-25	118	314	4	66	13	41	-3	65	7	55
284	-2	59	-21	106	-27	117	-26	117	315	-3	77	10	44	-3	66	5	59
285	-5	75	-18	103	-17	102	-24	113	316	-3	76	6	50	0	62	2	65
286	-3	62	-21	107	-26	117	-28	118	317	-6	76	5	53	9	51	14	54
287	-4	58	-23	108	-27	116	-31	120	318	10	58	13	49	-1	66	15	44
288	-9	66	-26	112	-33	122	-37	124	319	-1	76	4	63	-2	71	5	60
289	-1	79	-10	96	-10	95	-10	94	320	-1	83	6	64	-2	75	2	70
290	0	71	-12	95	-14	100	-15	102	321	-7	99	-2	69	-1	70	-2	76
291	3	68	-5	91	-8	95	-10	99	322	-14	95	-2	59	-9	72	-18	86
292	10	44	-9	93	-17	111	-13	106	323	2	95	6	70	14	60	12	70
293	-7	62	-22	94	-28	114	-50	127	324	0	76	10	44	16	37	5	64
294	15	36	-5	86	-6	89	-5	92	325	-5	74	9	31	0	47	-12	70
295	14	40	9	67	-2	80	17	57	326	0	70	12	43	18	35	11	55
296	16	27	-4	80	-4	82	-5	86	327	-11	75	3	53	11	37	5	56
297	12	29	-10	85	-9	85	-13	94	328	1	68	14	34	12	41	0	69
298	1	44	-1	70	-8	81	-12	91	329	0	65	10	38	10	41	2	65
299	20	36	7	60	-1	72	-2	77	330	-14	73	-3	52	2	48	-6	74
300	18	32	9	58	5	64	0	71	331	3	62	13	40	12	41	5	54
301	5	42	5	61	1	67	-1	73	332	4	62	17	32	13	41	7	54
302	1	48	12	50	9	56	4	64	333	-1	68	7	44	0	59	-6	76
303	10	62	15	50	0	69	-7	81	334	-13	75	7	38	3	50	-11	82
304	17	46	18	49	1	69	5	64	335	11	55	13	50	19	40	-2	77
305	9	64	17	54	7	69	15	57	336	5	64	10	57	3	66	-2	77
306	-12	104	10	41	-7	69	1	67	337	12	70	26	43	18	50	25	42
307	-11	97	7	46	-6	67	0	68									

Table 11 – Values of variables m and n for ctxIdx from 277 to 337

Fig. 4k

ctxIdx	I and SI slices		Value of cabac_init_idc						ctxIdx	I and SI slices		Value of cabac_init_idc					
			0		1		2					0		1		2	
	m	n	m	n	m	n	m	n		m	n	m	n	m	n	m	n
338	15	6	14	11	19	-6	17	-13	369	32	-26	31	-4	40	-37	37	-17
339	6	19	11	14	18	-6	16	-9	370	37	-30	27	6	38	-30	32	1
340	7	16	9	11	14	0	17	-12	371	44	-32	34	8	46	-33	34	15
341	12	14	18	11	26	-12	27	-21	372	34	-18	30	10	42	-30	29	15
342	18	13	21	9	31	-16	37	-30	373	34	-15	24	22	40	-24	24	25
343	13	11	23	-2	33	-25	41	-40	374	40	-15	33	19	49	-29	34	22
344	13	15	32	-15	33	-22	42	-41	375	33	-7	22	32	38	-12	31	-16
345	15	16	32	-15	37	-28	48	-47	376	35	-5	26	31	40	-10	35	18
346	12	23	34	-21	39	-30	39	-32	377	33	0	21	41	38	-3	31	28
347	13	23	39	-23	42	-30	46	-40	378	38	2	26	44	46	-5	33	41
348	15	20	42	-33	47	-42	52	-51	379	33	13	23	47	31	20	36	28
349	14	26	41	-31	45	-36	46	-41	380	23	35	16	65	29	30	27	47
350	14	44	46	-28	49	-34	52	-39	381	13	58	14	71	25	44	21	62
351	17	40	38	-12	41	-17	43	-19	382	29	-3	8	60	12	48	18	31
352	17	47	21	29	32	9	32	11	383	26	0	6	63	11	49	19	26
353	24	17	45	-24	69	-71	61	-55	384	22	30	17	65	26	45	36	24
354	21	21	53	-45	63	-63	56	-46	385	31	-7	21	24	22	22	24	23
355	25	22	48	-26	66	-64	62	-50	386	35	-15	23	20	23	22	27	16
356	31	27	65	-43	77	-74	81	-67	387	34	-3	26	23	27	21	24	30
357	22	29	43	-19	54	-39	45	-20	388	34	3	27	32	33	20	31	29
358	19	35	39	-10	52	-35	35	-2	389	36	-1	28	23	26	28	22	41
359	14	50	30	9	41	-10	28	15	390	34	5	28	24	30	24	22	42
360	10	57	18	26	36	0	34	1	391	32	11	23	40	27	34	16	60
361	7	63	20	27	40	-1	39	1	392	35	5	24	32	18	42	15	52
362	-2	77	0	57	30	14	30	17	393	34	12	28	29	25	39	14	60
363	-4	82	-14	82	28	26	20	38	394	39	11	23	42	18	50	3	78
364	-3	94	-5	75	23	37	18	45	395	30	29	19	57	12	70	-16	123
365	9	69	-19	97	12	55	15	54	396	34	26	22	53	21	54	21	53
366	-12	109	-35	125	11	65	0	79	397	29	39	22	61	14	71	22	56
367	36	-35	27	0	37	-33	36	-16	398	19	66	11	86	11	83	25	61
368	36	-34	28	0	39	-36	37	-14									

Table 12 - Values of variables m and n for ctxIdx from 338 to 398

Fig. 4e

data types	Table - No.	Slice type			
		SI	I	P, SP	B
slice data	2, 3			11-13	24-26
	7	70-72	70-72	70-72	70-72
macroblock layer control data	1, 2, 3	0-10	3-10	14-20	27-35
	7	73-76	73-76	73-76	73-76
	7	77-84	77-84	77-84	77-84
	6	60-63	60-63	60-63	60-63
macroblock prediction data	6	68	68	68	68
	6	69	69	69	69
	6	64-67	64-67	64-67	64-67
additional prediction data	5			54-59	54-59
	5				54-59
	4			40-46	40-46
	4				40-46
	4			47-53	47-53
	2				47-53
	2, 3			21-23	36-39
residual data	7	85-104	85-104	85-104	85-104
	8, 11	105-165, 277-337	105-165, 277-337	105-165, 277-337	105-165, 277-337
	9, 12	166-226, 338-398	166-226, 338-398	166-226, 338-398	166-226, 338-398
	10	227-275	227-275	227-275	227-275

Fig. 5

ctx Idx
values

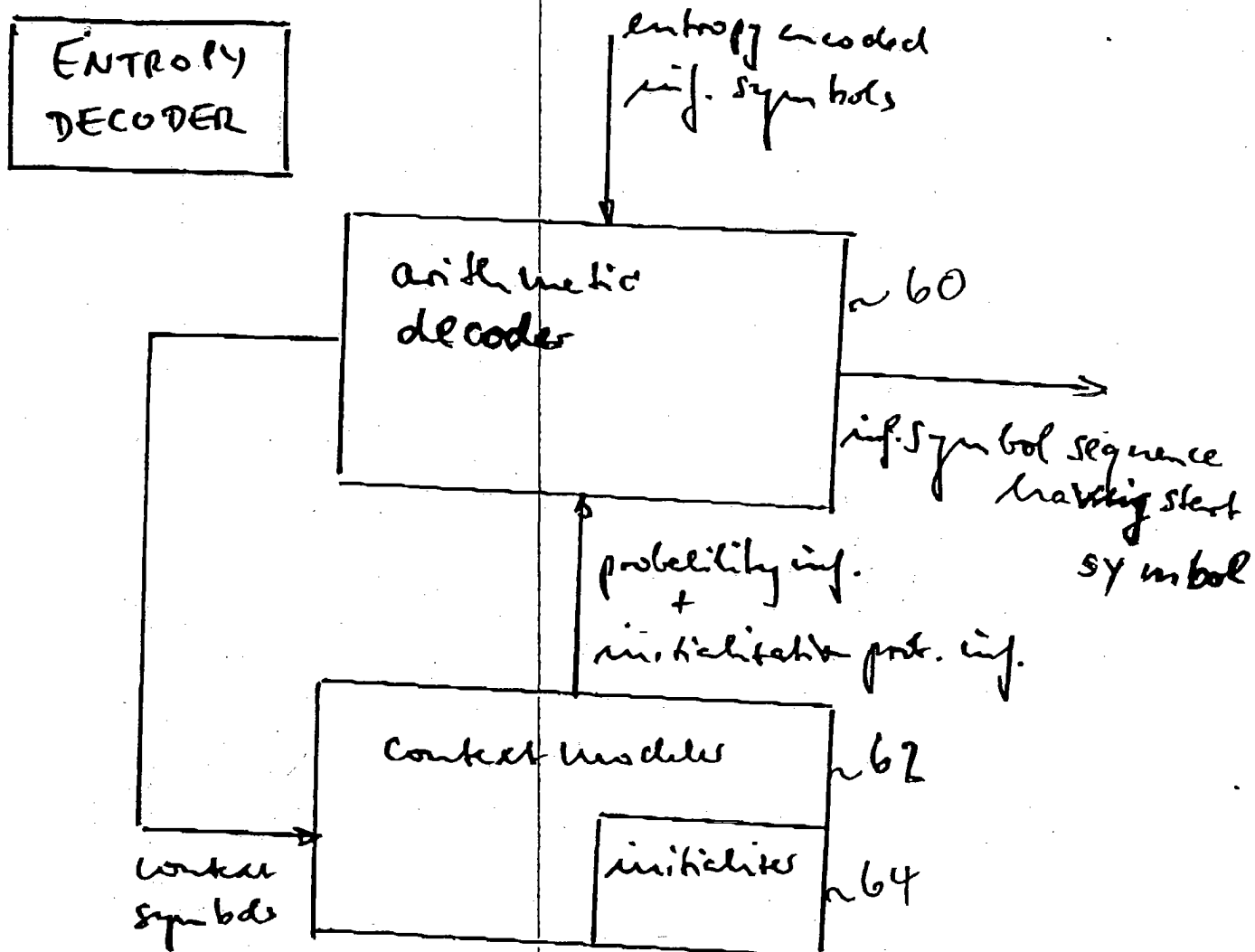


Fig. 6

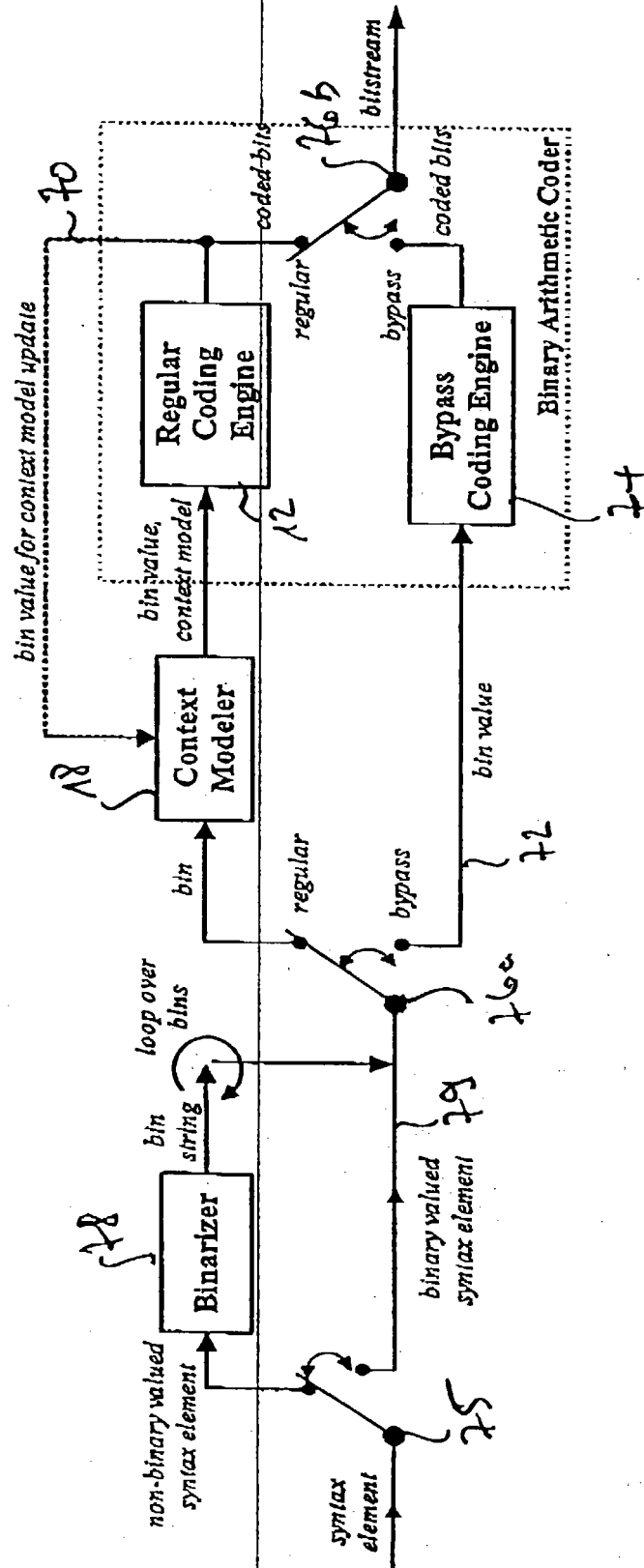


Fig. 7

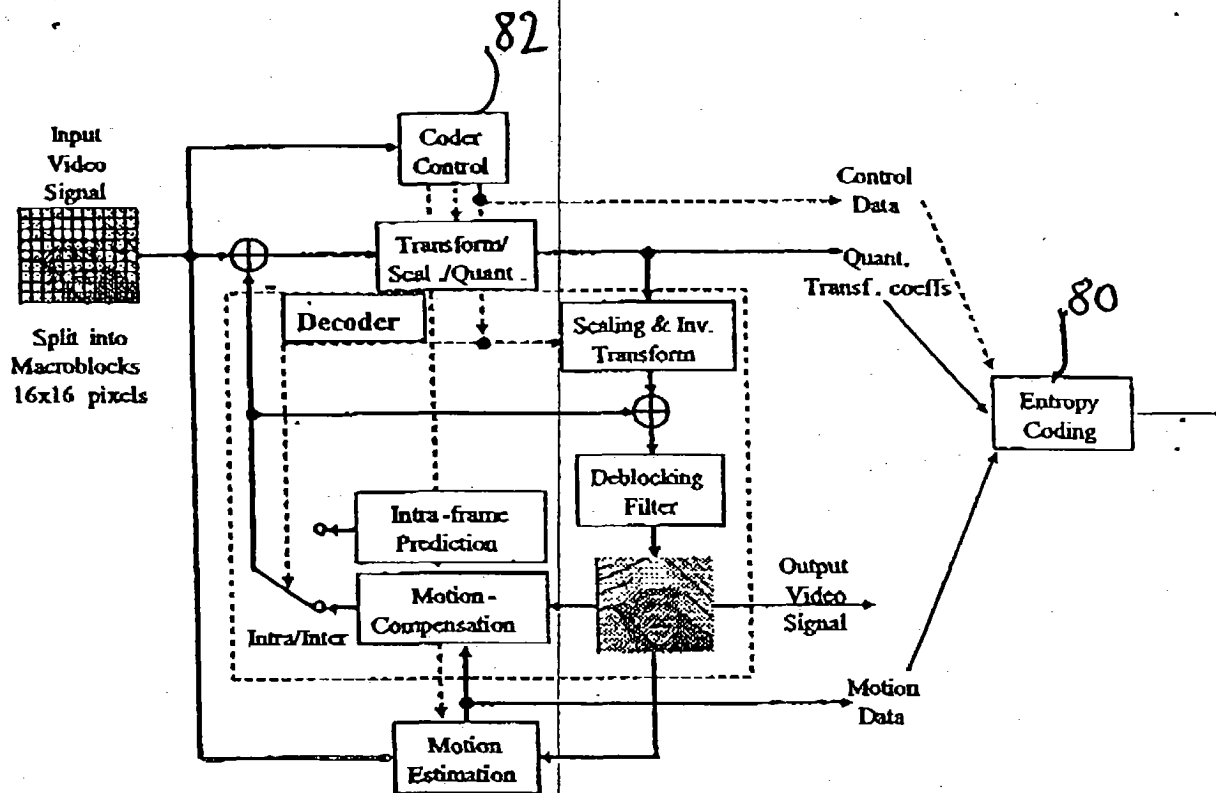


Fig. 8

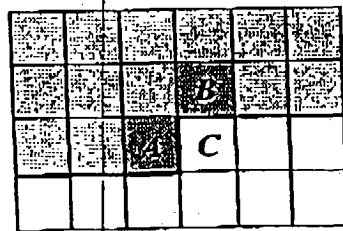


Fig. 9

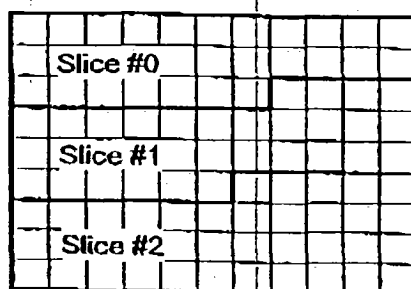


Fig. 10